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AUG 30 2002

TECH CENTER 1600/2900

1600

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09 726348A
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 _____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 _____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.	
10 <input checked="" type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 _____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	



1600

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/726,348A

DATE: 08/22/2002

TIME: 16:35:19

Error on p. 3

Input Set : A:\Subst SEQ LIST CRF.txt

Output Set: N:\CRF4\08222002\I726348A.raw

```

3 <110> APPLICANT: Wei, Ying-Fei et al.
5 <120> TITLE OF INVENTION: Transforming Growth Factor Alpha HIII
7 <130> FILE REFERENCE: PF220P1
9 <140> CURRENT APPLICATION NUMBER: 09/726,348A
10 <141> CURRENT FILING DATE: 2000-12-01
12 <150> PRIOR APPLICATION NUMBER: 08/778,545
13 <151> PRIOR FILING DATE: 1997-01-03
15 <150> PRIOR APPLICATION NUMBER: 60/011,136
16 <151> PRIOR FILING DATE: 1996-01-04
18 <150> PRIOR APPLICATION NUMBER: 60/168,387
19 <151> PRIOR FILING DATE: 1999-12-02
21 <160> NUMBER OF SEQ ID NOS: 21
23 <170> SOFTWARE: PatentIn version 3.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 923
27 <212> TYPE: DNA
28 <213> ORGANISM: homo sapiens
30 <400> SEQUENCE: 1
31 gaaaatggcg cctcacggcc cgggtagtgt tacgacctg gtgccctggg ctgccgccct      60
33 gctcctcgct ctgggcgtgg aaagggtctt ggcgtacct gagatatgca cccaatgtcc      120
35 agggagcgtg caaaatttgt caaaagtggc cttttattgt aaaacgacac gagagctaatt      180
37 gctgcatgcc cggtgtgtgc tgaatcagaa gggcaccatc ttggggctgg atctccagaa      240
39 ctgtttctctg gaggacctg gtccaaactt tcatcaggca cataccactg tcatcataga      300
41 cctgcaagca aacccccctca aagggtgactt ggccaacacc ttccgtgggt ttactcagct      360
43 ccagactctg atactgccac aacatgtcaa ctgtcctgga ggaattaatg cctggaatac      420
45 tatcacctct tatatagaca accaaatctg tcaagggcaa aagaaccttt gcaataacac      480
47 tggggaccca gaaatgtgtc ctgagaatgg atcttgtgta cctgatggtc caggtctttt      540
49 gcagtgtgtt tgtgctgatg gtttccatgg atacaagtgt atgcgccagg gctcgtttctc      600
51 actgcttatg ttcttcggga ttctgggagc caccactcta tccgtctcca ttctgctttg      660
53 ggcgacccag cgccgaaaag ccaagacttc atgaactaca taggtottac cattgacctc      720
55 agatcaatct gaactatctt agcccagtcg gggagctctg ctctctagaa aggcattctt      780
57 cgccagtgga ttgcctcaa ggttgaggcc gccattggaa gatgaaaaat tgcaactcct      840
59 tgggtgtagac aaataccagt tcccattggt gttgttgccct ataataaaca cttttttctt      900
61 ttttaaaaaa aaaaaaaaaa aaa                                     923
64 <210> SEQ ID NO: 2
65 <211> LENGTH: 229
66 <212> TYPE: PRT
67 <213> ORGANISM: homo sapiens
69 <400> SEQUENCE: 2
71 Met Ala Pro His Gly Pro Gly Ser Leu Thr Thr Leu Val Pro Trp Ala
72 -25                               -20                               -15                               -10
74 Ala Ala Leu Leu Leu Ala Leu Gly Val Glu Arg Ala Leu Ala Leu Pro
75                               -5                               1                               5

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/726,348A

DATE: 08/22/2002
TIME: 16:35:19

Input Set : A:\Subst SEQ LIST CRF.txt
Output Set: N:\CRF4\08222002\I726348A.raw

77 Glu Ile Cys Thr Gln Cys Pro Gly Ser Val Gln Asn Leu Ser Lys Val
78 10 15 20
80 Ala Phe Tyr Cys Lys Thr Thr Arg Glu Leu Met Leu His Ala Arg Cys
81 25 30 35
83 Cys Leu Asn Gln Lys Gly Thr Ile Leu Gly Leu Asp Leu Gln Asn Cys
84 40 45 50 55
86 Ser Leu Glu Asp Pro Gly Pro Asn Phe His Gln Ala His Thr Thr Val
87 60 65 70
89 Ile Ile Asp Leu Gln Ala Asn Pro Leu Lys Gly Asp Leu Ala Asn Thr
90 75 80 85
92 Phe Arg Gly Phe Thr Gln Leu Gln Thr Leu Ile Leu Pro Gln His Val
93 90 95 100
95 Asn Cys Pro Gly Gly Ile Asn Ala Trp Asn Thr Ile Thr Ser Tyr Ile
96 105 110 115
98 Asp Asn Gln Ile Cys Gln Gly Gln Lys Asn Leu Cys Asn Asn Thr Gly
99 120 125 130 135
101 Asp Pro Glu Met Cys Pro Glu Asn Gly Ser Cys Val Pro Asp Gly Pro
102 140 145 150
104 Gly Leu Leu Gln Cys Val Cys Ala Asp Gly Phe His Gly Tyr Lys Cys
105 155 160 165
107 Met Arg Gln Gly Ser Phe Ser Leu Leu Met Phe Phe Gly Ile Leu Gly
108 170 175 180
110 Ala Thr Thr Leu Ser Val Ser Ile Leu Leu Trp Ala Thr Gln Arg Arg
111 185 190 195
113 Lys Ala Lys Thr Ser
114 200

116 <210> SEQ ID NO: 3
117 <211> LENGTH: 52

118 <212> TYPE: PRT
119 <213> ORGANISM: homo sapiens

121 <400> SEQUENCE: 3
123 Gly Gln Lys Asn Leu Cys Asn Asn Thr Gly Asp Pro Glu Met Cys Pro

124 1 5 10 15
126 Glu Asn Gly Ser Cys Val Pro Asp Gly Pro Gly Leu Leu Gln Cys Val
127 20 25 30
129 Cys Ala Asp Gly Phe His Gly Tyr Lys Cys Met Arg Gln Gly Ser Phe
130 35 40 45

132 Ser Leu Leu Met
133 50

135 <210> SEQ ID NO: 4
136 <211> LENGTH: 733

137 <212> TYPE: DNA
138 <213> ORGANISM: homo sapiens

140 <400> SEQUENCE: 4
141 gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg

143 aattcgaggg tgcaccgtca gtcttcctct tcccccaaaa acccaaggac accctcatga
145 tctcccgagac tcttgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg
147 tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg
149 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact

60
120
180
240
300

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Input Set : A:\Subst SEQ LIST CRF.txt

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```

151 ggctgaatgg caaggagtag aagtgcgaagg tctccaacaa agccctccca acccccatcg 360
153 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
155 catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
157 atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540
159 ccacgcctcc cgtgctggac tccgacggct ccttcttctc ctacagcaag ctcaccgtgg 600
161 acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggtcttgc 660
163 acaaccacta cagcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
165 gactctagag gat 733

```

168 <210> SEQ ID NO: 5

169 <211> LENGTH: 5

170 <212> TYPE: PRT

171 <213> ORGANISM: WSXWS motif

173 <220> FEATURE:

174 <221> NAME/KEY: SITE

175 <222> LOCATION: (3)..(3)

176 <223> OTHER INFORMATION: Xaa equals any amino acid

179 <400> SEQUENCE: 5

W--> 181 Trp Ser Xaa Trp Ser

182 1 5

184 <210> SEQ ID NO: 6

185 <211> LENGTH: 86

186 <212> TYPE: DNA

187 <213> ORGANISM: oligonucleotide

189 <220> FEATURE:

190 <221> NAME/KEY: protein_bind

191 <222> LOCATION: (1)..(86)

192 <223> OTHER INFORMATION: 5' primer containing 18bp complementary to SV40 promotor and
193 an XhoI site

196 <400> SEQUENCE: 6

197 ggcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60

199 cccgaaatat ctgccatctc aattag 86

202 <210> SEQ ID NO: 7

203 <211> LENGTH: 27

204 <212> TYPE: DNA

205 <213> ORGANISM: oligonucleotide

207 <220> FEATURE:

208 <221> NAME/KEY: protein_bind

209 <222> LOCATION: (1)..(27)

210 <223> OTHER INFORMATION: 3' primer containing sequence complementary to SV40
211 promotor and a HindIII site

214 <400> SEQUENCE: 7

215 gcggcaagct ttttgcaaag cctaggc 27

218 <210> SEQ ID NO: 8

219 <211> LENGTH: 271

220 <212> TYPE: DNA

221 <213> ORGANISM: Homo sapiens

223 <400> SEQUENCE: 8

224 ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60

226 aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc 120

invalid response, see error summary sheet
item 10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/726,348A

DATE: 08/22/2002

TIME: 16:35:19

Input Set : A:\Subst SEQ LIST CRF.txt

Output Set: N:\CRF4\08222002\I726348A.raw

```

228 gccccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat 180
230 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
232 ttttggaggc ctaggctttt gcaaaaagct t 271
235 <210> SEQ ID NO: 9
236 <211> LENGTH: 32
237 <212> TYPE: DNA
238 <213> ORGANISM: oligonucleotide
240 <220> FEATURE:
241 <221> NAME/KEY: primer_bind
242 <222> LOCATION: (1)..(32)
243 <223> OTHER INFORMATION: 5' PCR primer
246 <400> SEQUENCE: 9 32
247 gcgctcgagg gatgacagcg atagaacccc gg
250 <210> SEQ ID NO: 10
251 <211> LENGTH: 31
252 <212> TYPE: DNA
253 <213> ORGANISM: oligonucleotide
255 <220> FEATURE:
256 <221> NAME/KEY: primer_bind
257 <222> LOCATION: (1)..(31)
258 <223> OTHER INFORMATION: 3' PCR primer
261 <400> SEQUENCE: 10 31
262 gcgaagcttc gcgactcccc ggatccgcct c
265 <210> SEQ ID NO: 11
266 <211> LENGTH: 12
267 <212> TYPE: DNA
268 <213> ORGANISM: oligonucleotide
270 <220> FEATURE:
271 <221> NAME/KEY: primer_bind
272 <222> LOCATION: (1)..(12)
273 <223> OTHER INFORMATION: NF-KB repeat in upstream primer
276 <400> SEQUENCE: 11 12
277 ggggactttc cc
280 <210> SEQ ID NO: 12
281 <211> LENGTH: 73
282 <212> TYPE: DNA
283 <213> ORGANISM: oligonucleotide
285 <220> FEATURE:
286 <221> NAME/KEY: primer_bind
287 <222> LOCATION: (1)..(73)
288 <223> OTHER INFORMATION: 5' primer containing the NF-KB binding site, 18bp
289 complementary to SV40 promotor, and an XhoI site
292 <400> SEQUENCE: 12
293 gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60
295 ccattctcaat tag 73
298 <210> SEQ ID NO: 13
299 <211> LENGTH: 256
300 <212> TYPE: DNA
301 <213> ORGANISM: Homo sapiens

```

RAW SEQUENCE LISTING

DATE: 08/22/2002

PATENT APPLICATION: US/09/726,348A

TIME: 16:35:19

Input Set : A:\Subst SEQ LIST CRF.txt

Output Set: N:\CRF4\08222002\I726348A.raw

```

303 <400> SEQUENCE: 13
304 ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct      60
306 caattagtca gcaaccatag tcccgcccct aactccgccc atcccgcccc taactccgcc      120
308 cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga      180
310 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg      240
312 cttttgcaaa aagctt                                     256
315 <210> SEQ ID NO: 14
316 <211> LENGTH: 27
317 <212> TYPE: DNA
318 <213> ORGANISM: oligonucleotide
320 <220> FEATURE:
321 <221> NAME/KEY: primer_bind
322 <222> LOCATION: (1)..(27)
323 <223> OTHER INFORMATION: 5' primer containing a BamHI site and 18nt of TGF alpha HIII
326 <400> SEQUENCE: 14
327 cgcggatccg ggcaaaagaa cctttgc                                     27
330 <210> SEQ ID NO: 15
331 <211> LENGTH: 30
332 <212> TYPE: DNA
333 <213> ORGANISM: oligonucleotide
335 <220> FEATURE:
336 <221> NAME/KEY: primer_bind
337 <222> LOCATION: (1)..(30)
338 <223> OTHER INFORMATION: 3' primer containing an XbaI site and 21 nt of TGF alpha
HIII
341 <400> SEQUENCE: 15
342 gcgtctagac taaagcagtg agaacgagcc                                     30
345 <210> SEQ ID NO: 16
346 <211> LENGTH: 34
347 <212> TYPE: DNA
348 <213> ORGANISM: oligonucleotide
350 <220> FEATURE:
351 <221> NAME/KEY: primer_bind
352 <222> LOCATION: (1)..(34)
353 <223> OTHER INFORMATION: 5' primer containing a BamHI site
356 <400> SEQUENCE: 16
357 cgcggatccg tccatcatgg cgcctcacgg cccg                                     34
360 <210> SEQ ID NO: 17
361 <211> LENGTH: 33
362 <212> TYPE: DNA
363 <213> ORGANISM: oligonucleotide
365 <220> FEATURE:
366 <221> NAME/KEY: primer_bind
367 <222> LOCATION: (1)..(33)
368 <223> OTHER INFORMATION: 3' primer containing an XbaI site
371 <400> SEQUENCE: 17
372 gcgtctagac tacataagca gtgacaacga gcc                                     33
375 <210> SEQ ID NO: 18
376 <211> LENGTH: 28
377 <212> TYPE: DNA

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/726,348A

DATE: 08/22/2002
TIME: 16:35:20

Input Set : A:\Subst SEQ LIST CRF.txt
Output Set: N:\CRF4\08222002\I726348A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; Xaa Pos. 3

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/726,348A

DATE: 08/28/2002
TIME: 16:35:20

Input Set : A:\Subst SEQ LIST CRF.txt

Output Set: N:\CRF4\08222002\I726348A.raw

:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0